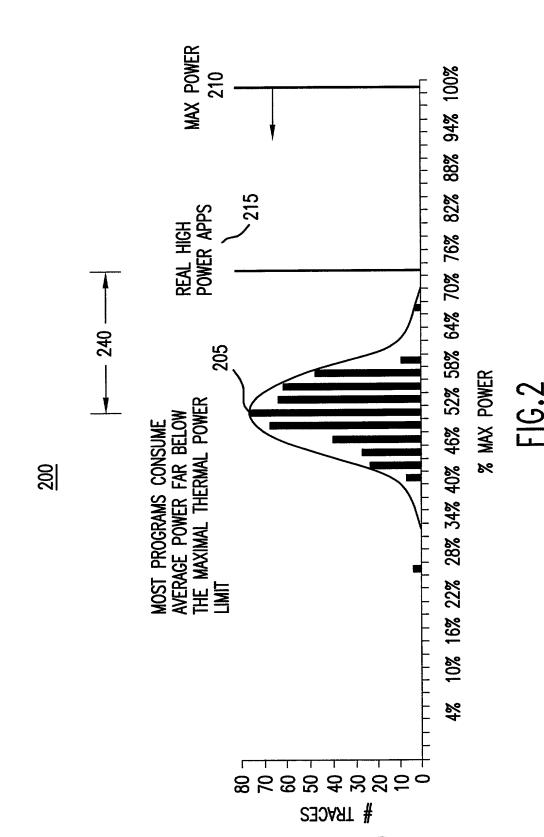
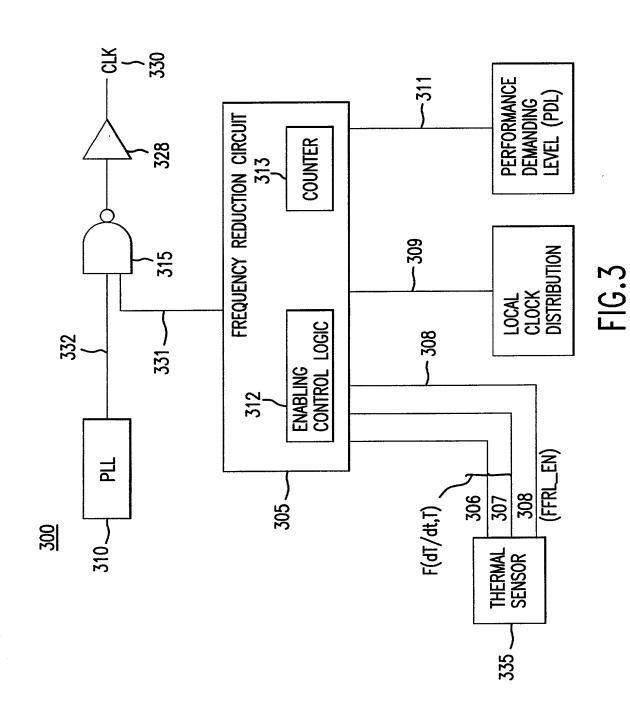
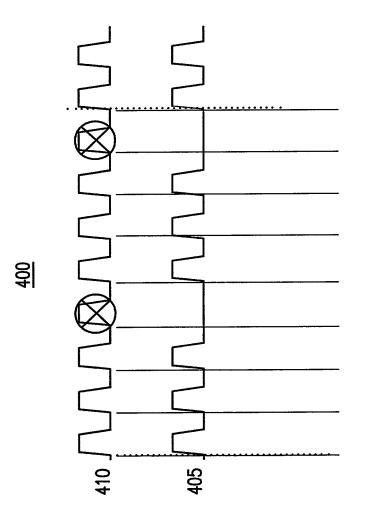
EH.





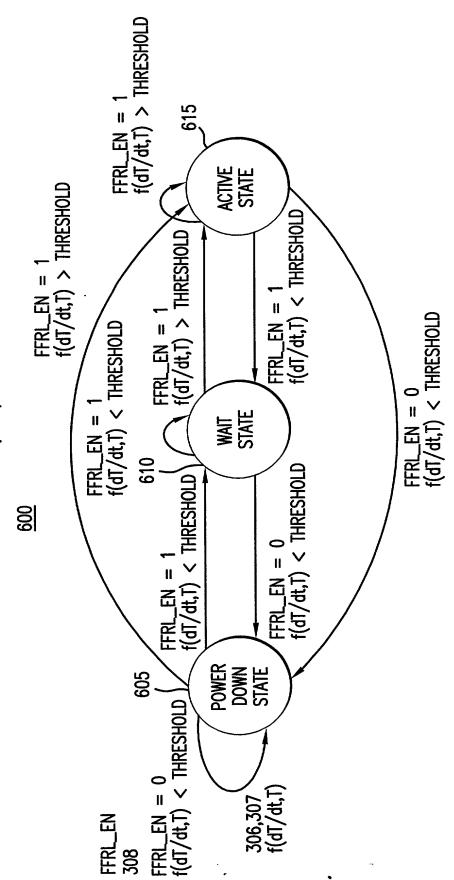


## 200

FFR_EN	dT/dt	THERMAL TEMPERATURE	THERMAL TEMPERATURE   CURRENT LOGIC STATE	PREV. LOGIC STATE
O (NOT NEAR MAXIMAL THERMAL LIMIT)	NOT CARE	NOT CARE	POWER DOWN	POWER DOWN
O (NOT NEAR MAXIMAL THERMAL LIMIT)	NOT CARE	NOT CARE	POWER DOWN	WAIT
O (NOT NEAR MAXIMAL THERMAL LIMIT)	NOT CARE	NOT CARE	POWER DOWN	ACTIVE
1 (NEAR MAXIMAL THERMAL LIMIT)	<0.2 (SLOW RATE)	<max. td="" temperature-ôt<=""><td>POWER DOWN</td><td>Power Down</td></max.>	POWER DOWN	Power Down
1 (NEAR MAXIMAL THERMAL LIMIT)	>0.2 (SLOW RATE)	<max. td="" temperature-ôt<=""><td>WAIT</td><td>POWER DOWN</td></max.>	WAIT	POWER DOWN
1 (NEAR MAXIMAL THERMAL LIMIT)	<0.2 (SLOW RATE)	< MAX. TEMPERATURE—ôt	POWER DOWN	WAIT
1 (NEAR MAXIMAL THERMAL LIMIT)	>0.2 (SLOW RATE)	<max. td="" temperature-ôt<=""><td>WAIT</td><td>WAIT</td></max.>	WAIT	WAIT
1: (NEAR MAXIMAL THERMAL LIMIT)	NOT CARE	>MAX. TEMPERATURE—ôt	ACTIVE	POWER DOWN
1 (NEAR MAXIMAL THERMAL LIMIT)	NOT CARE	>MAX. TEMPERATURE-ôt	ACTIVE	WAIT
1 (NEAR MAXIMAL THERMAL LIMIT)	NOT CARE	>Max. Temperature—ôt	ACTIVE	ACTIVE

## FIG.5

LOGIC STATES DIAGRAM OF FAST FREQUENCY REDUCTION LOGIC (FFRL)



FFRL\_EN: FAST FREQUENCY REDUCTION LOGIC ENABLE SIGNAL; THRESHOLD: LOGIC STATE TRANSITE THRESHOLD; dT/dt: TEMPERATURE CHANGING RATE; T: THERMAL TEMPERATURE; f(dT/dt,T): FUNCTION OF dT/dt AND T